

## IN THE SPECIFICATION

Please replace paragraph [28] with the following paragraph:

[0028] The gradient coil sub-system 110, having one or more gradient coils, is provided so that a magnetic gradient can be imposed on the magnetic field  $B_0$  in the gap 123 between pole pieces 44-~~104~~ in any one or more of three orthogonal directions x, y, and z. Gradient coil sub-system 110 is energized by gradient field control 112 and is also controlled by the controller 106.